ELSEVIER

Physica C 251 (1995) 411–414

PHYSICA C

Author Index to Volume 251

Abalioshev, A.V., see D'yachenko, A.I., **251**, 207
Akimenko, A.I. and V.A. Gudimenko, Zn doping effect on point-contact spectra and excess current in $Y(Gd)Ba_2Cu_3O_{7-\delta}$. Symmetry of order parameter, **251**, 97
Akinaga, M., see Saini, N.L., **251**, 7
Alloul, H., see Guerrin, L., **251**, 219
Andreone, A., F. Fontana, M. Iavarone, R. Vaglio, F. Canepa, P. Manfrinetti and A. Palenzona, Transport and tunneling measurements in superconducting YNi_2B_2C, **251**, 379
Anselmi Tamburini, U., see Scavini, M., **251**, 89
Asaoka, H., see Kobayashi, N., **251**, 255
Ausloos, M., H. Bougrine, P.H. Duvigneaud and Y.F. Guo, Investigation of the electrical-resistivity behavior between the Kosterlitz–Thouless temperature and the Ginzburg–Landau temperature in spray-dried bulk $Bi_2Sr_2CaCu_2O_{8+d}$. The role of two-dimensional fluctuations and defects, **251**, 337
Awaji, S., see Kobayashi, N., **251**, 255,

Baltaga, I.V., see Pérez-Rodríguez, F., **251**, 50
Basu, R.N., see Güttler, B., **251**, 165
Bennett, L.H., see Hill, M.D., **251**, 361
Berner, D., see Widder, K., **251**, 274
Beyers, R.B., see MacManus-Driscoll, J.L., **251**, 71
Bhattacharya, R.N. and M. Paranthaman, Alternating-current electrodeposition (metafuse) process for forming thallium-oxide superconductors, **251**, 105
Bianconi, A., see Saini, N.L., **251**, 383
Blendell, J.E., see Hill, M.D., **251**, 361
Boiko, Ya.V., see D'yachenko, A.I., **251**, 207
Bougrine, H., see Ausloos, M., **251**, 337
Braun, H.F., see Widder, K., **251**, 274
Bravman, J.C., see MacManus-Driscoll, J.L., **251**, 71
Bryntse, I. and A. Kareiva, Sol-gel synthesis and superconducting properties of $HgBa_2CaCu_2O_{6+\delta}$, **251**, 115,

Campá, J.A., see Menegotto Costa, R., **251**, 175
Canepa, F., see Andreone, A., **251**, 379
Cao, Y., see Xiong, Q., **251**, 216
Chacon, L., see Hill, M.D., **251**, 361
Chang, H., Z.H. He, R.L. Meng, Y.Y. Xue and C.W. Chu, Raman study of the thermal stability of $HgBa_2CaCu_2O_{6+\delta}$ and $HgBa_2Ca_2Cu_3O_{8+\delta}$, **251**, 126
Che, G.C., F. Wu, Y.C. Lan, H. Chen, C. Dong, B. Yin, S.L. Jia and Z.X. Zhao, New 1212 type (Pb,Cd) based cuprate superconducting system $(Pb_{0.5}Cd_{0.5})Sr_2(Tb_{1-x}Ca_x)Cu_2O_7$, **251**, 110
Chen, C., see Pradhan, A.K., **251**, 405
Chen, F., see Xiong, Q., **251**, 216
Chen, H., see Che, G.C., **251**, 110
Chen, X.K., see Hewitt, K.C., **251**, 192
Chiang, C.K., see Hill, M.D., **251**, 361
Chu, C.W., see Chang, H., **251**, 126
Chu, C.W., see Xiong, Q., **251**, 216
Cimberle, M.R., C. Ferdeghini, R. Flükiger, E. Giannini, G. Grasso, D. Marrè, M. Putti and A.S. Siri, On the magnetic behavior of BSCCO(2223) Ag tapes, **251**, 61
Collin, G., see Guerrin, L., **251**, 219
Continenza, A., see Massidda, S., **251**, 389
Cowen, J.A., see Zhou, X.Z., **251**, 183
Curzon, A.E., see Hewitt, K.C., **251**, 192,

Dallacasa, V. and R. Feduzi, High-T_c superconductivity in a correlated disorder-induced localized system, **251**, 156
De Pascale, T.M., see Massidda, S., **251**, 389
Dewing, H.L., see Güttler, B., **251**, 165
Doettinger, S.G., R.P. Huebener and A. Kühle, Electronic instability during vortex motion in cuprate superconductors. Regime of low and high magnetic fields, **251**, 285
Dong, C., see Che, G.C., **251**, 110
Duvigneaud, P.H., see Ausloos, M., **251**, 337
D'yachenko, A.I., V.Yu. Tarenkov, A.V. Abalioshev, R.V. Lutciv, Yu.N. Myasoedov and Ya.V. Boiko, Magnetic-field and high-pressure dependences of T_c and critical current in the polycrystalline HgBaCaCuO system, **251**, 207,

Ehmann, A., see Seling, B., **251**, 238
Elly, J., M.G. Medici, A. Gilabert, F. Schmidl, T. Schmauder, E. Heinz and P. Seidel, Magnetic-field dependence of Josephson critical current in $YBa_2Cu_3O_{7-x}$ bicrystal grain boundary junctions, **251**, 171
Enomoto, Y. and S. Maekawa, Complex resistivity of two-dimensional vortex systems in random media, **251**, 355,

Feduzi, R., see Dallacasa, V., **251**, 156
Ferdeghini, C., see Cimberle, M.R., **251**, 61
Filoti, G., see Seling, B., **251**, 238
Fisher, L.M., see Pérez-Rodríguez, F., **251**, 50
Flor, G., see Scavini, M., **251**, 89
Flükiger, R., see Cimberle, M.R., **251**, 61

Fontana, F., see Andreone, A., **251**, 379
Foster, C., see Ren, Y., **251**, 15
Franse, J.J.M., see Saini, N.L., **251**, 7
Freyhardt, H.C., see Krelaus, J., **251**, 366
Fukunaga, T. and A. Oota, Hysteresis and eddy-current losses of Ag sheathed $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ rod-form wires under AC transport currents, **251**, 325,

Gao, J. and W.H. Wong, Investigation on surface morphology of sputtered $YBa_2Cu_3O_x$ thin and ultrathin films, **251**, 330
Garg, K.B., see Saini, N.L., **251**, 7
Geserich, H.P., see Widder, K., **251**, 274
Ghigna, P., see Scavini, M., **251**, 89
Ghivelder, L., see Menegotto Costa, R., **251**, 175
Giannini, E., see Cimberle, M.R., **251**, 61
Gibson, J., see Xiong, Q., **251**, 216
Gilabert, A., see Elly, J., **251**, 171
Goerke, F. and A. Thorns, Influence of target–substrate distance and oxygen pressure on morphology, orientation and homogeneity of laser-deposited $YBa_2Cu_3O_7$ films on MgO (100), **251**, 247
Grasso, G., see Cimberle, M.R., **251**, 61
Gudimenko, V.A., see Akimenko, A.I., **251**, 97
Guerrin, L., H. Alloul and G. Collin, Possible origin for the T^2 dependence of the penetration depth detected by susceptibility measurements in aligned $YBa_2Cu_3O_7$ powder samples, **251**, 219
Guo, Y.F., see Ausloos, M., **251**, 337
Güttler, B., H.L. Dewing, R.N. Basu and D. Schiel, Quantitative evaluation of the oxygen content in $YBa_2Cu_3O_{7-\delta}$ epitaxially grown thin films using near-infrared excited Raman spectrometry, **251**, 165
Györffy, B.L., see Litak, G., **251**, 263,

Hartford Jr., E.H., see Hellman, E.S., **251**, 133
He, Z.H., see Chang, H., **251**, 126
Heinemann, K., see Krelaus, J., **251**, 366
Heinz, E., see Elly, J., **251**, 171
Hellman, E.S., J.R. Kwo, A. Kussmaul and E.H. Hartford Jr., Heteroepitaxial $Ba_{1-x}K_xBiO_3/La_{2-y}Sr_yCuO_4$ superconducting junctions, **251**, 133
Hellstrom, E.E., see Ray II, R.D., **251**, 27
Hewitt, K.C., X.K. Chen, X. Meng-Burany, A.E. Curzon and J.C. Irwin, Raman investigation of Pb-substituted $Bi_2Sr_2Cu_{6+\delta}$ single crystals, **251**, 192
Hill, M.D., J.E. Blendell, C.K. Chiang, L.H. Bennett, J.J. Ritter, L. Chacon, J.F. Kelly and W. Wong-Ng, Effect of Sm_2BaCuO_5 on the properties of sintered (bulk) $YBa_2Cu_3O_{6+x}$, **251**, 361
Hirano, K., see Kobayashi, N., **251**, 255
Huebener, R.P., see Doettinger, S.G., **251**, 285,

Iavarone, M., see Andreone, A., **251**, 379
Il'enko, K.V., see Pérez-Rodríguez, F., **251**, 50
Indekeu, J.O. and J.M.J. van Leeuwen, Wetting, prewetting and surface transitions in type-I superconductors, **251**, 290
Irwin, J.C., see Hewitt, K.C., **251**, 192
Isobe, M., see Ramirez-Castellanos, J., **251**, 279
Ito, T., see Saini, N.L., **251**, 383
Iwasaki, H., see Kobayashi, N., **251**, 255,

Jacobson, A., see Xiong, Q., **251**, 216
Jia, S.L., see Che, G.C., **251**, 110
Jurelo, A.R., see Menegotto Costa, R., **251**, 175,

Kalinov, A.V., see Pérez-Rodríguez, F., **251**, 50
Kareiva, A., see Bryntse, I., **251**, 115
Kazumata, Y., see Kumakura, H., **251**, 231
Kelly, J.F., see Hill, M.D., **251**, 361
Kemmler-Sack, S., see Seling, B., **251**, 238
Kim, J.H., see Youm, D., **251**, 399
Kim, W.-S., see Lee, S., **251**, 149
Kobayashi, N., K. Hirano, T. Nishizaki, H. Iwasaki, T. Sasaki, S. Awaji, K. Watanabe, H. Asaoka and H. Takei, Anisotropic properties of the anomalous second peak in the magnetization curves and the irreversibility field of $YBa_2Cu_3O_y$ ($6.6 \leq y \leq 6.9$) single crystals, **251**, 255
Krämer, U., see Thomas, J., **251**, 315
Krelaus, J., K. Heinemann, B. Ullmann and H.C. Freyhardt, Critical current density enhancement by phase decomposition of $YBa_2Cu_4O_8$ into $YBa_2Cu_3O_{7-\delta}$ and CuO, **251**, 366
Kugel, K.I. and A.L. Rakhmanov, Critical current relaxation in ceramic superconductors. Effect of the surface barrier, **251**, 307
Kühle, A., see Doettinger, S.G., **251**, 285
Kumakura, H., K. Togano, N. Tomita, E. Yanagisawa, S. Okayasu and Y. Kazumata, Comparative study on 180 MeV Cu^{11+} irradiation effect on textured $YBa_2Cu_3O_x$ and $Bi_2Sr_2CaCu_2O_y$, **251**, 231
Kunkel, H.P., see Zhou, X.Z., **251**, 183
Kunzler, J.V., see Menegotto Costa, R., **251**, 175
Kussmaul, A., see Hellman, E.S., **251**, 133
Kwo, J.R., see Hellman, E.S., **251**, 133
Kwon, K.-J., see Lee, S., **251**, 149,

Lan, Y.C., see Che, G.C., **251**, 110
Lanzara, A., see Saini, N.L., **251**, 383
Law, D.S-L., see Saini, N.L., **251**, 7
Lee, S., K.-J. Kwon, W.-S. Kim and S.-I. Lee, The role of alumina in the growth mechanism of Bi(Pb)–Sr–Ca–Cu–O whiskers, **251**, 149
Lee, S.-I., see Lee, S., **251**, 149
Li, J.W., see Wen, H.H., **251**, 371
Linhart, J., see Seling, B., **251**, 238
Litak, G., P. Miller and B.L. Györffy, A recursion method for solving the Bogoliubov equations for inhomogeneous superconductors, **251**, 263
Liu, J., see Ren, Y., **251**, 15
Liu, L.M., see Xiong, Q., **251**, 216
Lutciv, R.V., see D'yachenko, A.I., **251**, 207,

MacManus-Driscoll, J.L., J.C. Bravman and R.B. Beyers, Pseudo-quaternary phase relations near $Bi_2Sr_2CaCu_2O_{8+x}$ in reduced oxygen pressures, **251**, 71

Maekawa, S., see Enomoto, Y., **251**, 355
Makarov, N.M., see Pérez-Rodríguez, F., **251**, 50
Manfrinetti, P., see Andreone, A., **251**, 379
Marrè, D., see Cimberle, M.R., **251**, 61
Massidda, S., A. Continenza, T.M. de Pascale and R. Monnier, Electronic structure and stability of periodically repeated $Cu(Ca_{0.3}Sr_{0.7})_2(Ca_{0.3}Sr_{0.7})_{n-1}Cu_nO_{2n+2\delta}$ "defect layers" in infinite-layer superconductors, **251**, 389
Matsui, Y., see Ramirez-Castellanos, J., **251**, 279
Mattheiss, L.F., Electronic properties of the ordered $(\sqrt{2} \times \sqrt{2})$ superlattice phases $La_2Cu_{0.5}Li_{0.5}O_4$ and $La_2Au_{0.5}Li_{0.5}O_4$, **251**, 140
Medici, M.G., see Elly, J., **251**, 171
Menegotto Costa, R., A.R. Jurelo, P. Rodrigues Jr., P. Pureur, J. Schaf, J.V. Kunzler, L. Ghivelder, J.A. Campá and I. Rasines, Splitting of the bulk resistive transition in high-T_c superconductors: Evidence for unconventional pairing, **251**, 175
Meng-Burany, X., see Hewitt, K.C., **251**, 192
Meng, R.L., see Chang, H., **251**, 126
Menovsky, A., see Saini, N.L., **251**, 7
Miller, P., see Litak, G., **251**, 263
Missori, M., see Saini, N.L., **251**, 383
Monnier, R., see Massidda, S., **251**, 389
Myasoedov, Yu.N., see D'yachenko, A.I., **251**, 207,

Nishizaki, T., see Kobayashi, N., **251**, 255,

Ohkubo, H., see Saini, N.L., **251**, 7
Oka, K., see Saini, N.L., **251**, 383
Okayasu, S., see Kumakura, H., **251**, 231
Olsen, E.A., see Ray II, R.D., **251**, 1
Onufrieva, F., Evidence for $d_{x^2-y^2}$ symmetry of superconducting order parameter in YBCO from neutron-scattering data, **251**, 348
Oota, A., see Fukunaga, T., **251**, 325
Oyanagi, H., see Saini, N.L., **251**, 383,

Palenzona, A., see Andreone, A., **251**, 379
Paranthaman, M., see Bhattacharya, R.N., **251**, 105
Pérez-Rodríguez, F., I.V. Baltaga, K.V. Il'enko, N.M. Makarov, V.A. Yampol'skii, L.M. Fisher, A.V. Kalinov and I.F. Voloshin, Interaction of electromagnetic waves in hard superconductors, **251**, 50
Pradhan, A.K., C. Chen and B.M. Wanklyn, High-magnetic-field transport properties and irreversibility line of single crystals (2212) and ceramics of BPSCCO (2223), **251**, 405
Pudney, P., see Saini, N.L., **251**, 7
Pureur, P., see Menegotto Costa, R., **251**, 175
Putti, M., see Cimberle, M.R., **251**, 61,

Rakhmanov, A.L., see Kugel, K.I., **251**, 307
Ramirez-Castellanos, J., Y. Matsui, E. Takayama-Muromachi and M. Isobe, Microstructural characterization of $GaSr_2Ca_2Cu_3O_{9+\delta}$, $n = 3$ member of the homologous series of superconductors $GaSr_2Ca_{n-1}Cu_nO_{2n+3}$, **251**, 279
Rasines, I., see Menegotto Costa, R., **251**, 175
Ray II, R.D., P.A. Smith and E.A. Olsen, Synthesis of Ag sheathed, Bi-2212 tapes by a novel liquid wicking method, **251**, 1
Ray II, R.D. and E.E. Hellstrom, Microstructurally optimized heat treatment for melt-processed, Ag clad $Bi_2Sr_2CaCu_2O_y$ tape. Step-solidification melt processing, **251**, 27
Reimers, W., see Seling, B., **251**, 238
Ren, Y., R. Weinstein, J. Liu, R.P. Sawh and C. Foster, Damage caused by magnetic pressure at high trapped field in quasi-permanent magnets composed of melt-textured Y–Ba–Cu–O superconductor, **251**, 15
Ritter, J.J., see Hill, M.D., **251**, 361
Rodrigues Jr., P., see Menegotto Costa, R., **251**, 175
Rosenberg, M., see Seling, B., **251**, 238
Rossetti, T., see Saini, N.L., **251**, 383,

Saini, N.L., D.S-L. Law, P. Pudney, P. Srivastava, A. Menovsky, J.J.M. Franse, H. Ohkubo, M. Akinaga, F. Studer and K.B. Garg, Electronic structure studies of the Bi2212 system by polarised X-ray absorption measurement, **251**, 7
Saini, N.L., A. Lanzara, M. Missori, T. Rossetti, A. Bianconi, H. Oyanagi, H. Yamaguchi, K. Oka and T. Ito, Local lattice instability of CuO_2 plane in $La_{1.85}Sr_{0.15}CuO_4$ by polarized Cu K edge absorption, **251**, 383
Sasaki, T., see Kobayashi, N., **251**, 255
Sawh, R.P., see Ren, Y., **251**, 15
Scavini, M., P. Ghigna, G. Spinolo, U. Anselmi Tamburini and G. Flor, Small polarons in undoped $Nd_2CuO_{4\pm\delta}$, **251**, 89
Schaf, J., see Menegotto Costa, R., **251**, 175
Schätzle, P., see Thomas, J., **251**, 315
Schiel, D., see Güttler, B., **251**, 165
Schinzer, C., see Seling, B., **251**, 238
Schmauder, T., see Elly, J., **251**, 171
Schmidl, F., see Elly, J., **251**, 171
Seidel, P., see Elly, J., **251**, 171
Seling, B., C. Schinzer, A. Ehmann, S. Kemmler-Sack, G. Filoti, M. Rosenberg, J. Linhart and W. Reimers, Neutron powder diffraction and magnetic properties of Bi-0212, **251**, 238
Siri, A.S., see Cimberle, M.R., **251**, 61
Smith, P.A., see Ray II, R.D., **251**, 1
Spinolo, G., see Scavini, M., **251**, 89
Srivastava, P., see Saini, N.L., **251**, 7
Stampe, P.A., see Zhou, X.Z., **251**, 183
Studer, F., see Saini, N.L., **251**, 7,

Takayama-Muromachi, E., see Ramirez-Castellanos, J., **251**, 279
Takei, H., see Kobayashi, N., **251**, 255
Tarenkov, V.Yu., see D'yachenko, A.I., **251**, 207
Thomas, J., P. Verges, P. Schätzle, A. Wetzig and U. Krämer, Analytical TEM investigations of $YBa_2Cu_3O_{7-x}$ with Y_2BaCuO_5 inclusions, **251**, 315
Thorns, A., see Goerke, F., **251**, 247
Togano, K., see Kumakura, H., **251**, 231
Tomita, N., see Kumakura, H., **251**, 231,

Ullmann, B., see Krelaus, J., **251**, 366,

Vaglio, R., see Andreone, A., **251**, 379
Van Leeuwen, J.M.J., see Indekeu, J.O., **251**, 290
Verges, P., see Thomas, J., **251**, 315
Voloshin, I.F., see Pérez-Rodríguez, F., **251**, 50,

Wanklyn, B.M., see Pradhan, A.K., **251**, 405
Watanabe, K., see Kobayashi, N., **251**, 255
Weinstein, R., see Ren, Y., **251**, 15
Wen, H.H., Z.X. Zhao, Y.G. Xiao, B. Yin and J.W. Li, Evidence for flux pinning induced by spatial fluctuation of transition temperatures in single domain $(Y_{1-x}Pr_x)Ba_2Cu_3O_{7-\delta}$ samples, **251**, 371
Wetzig, A., see Thomas, J., **251**, 315
Widder, K., D. Berner, H.P. Geserich, W. Widder and H.F. Braun, Optical investigation of the metal–insulator transition in $NdBa_2Cu_3O_x$. A comparison with $YBa_2Cu_3O_x$, **251**, 274
Widder, W., see Widder, K., **251**, 274
Williams, G., see Zhou, X.Z., **251**, 183
Wong-Ng, W., see Hill, M.D., **251**, 361
Wong, W.H., see Gao, J., **251**, 330
Wu, F., see Che, G.C., **251**, 110,

Xiao, Y.G., see Wen, H.H., **251**, 371
Xiong, Q., Y.Y. Xue, Y. Cao, F. Chen, J. Gibson, L.M. Liu, A. Jacobson and C.W. Chu, Dependence of T_c on hole concentration in $HgBa_2CuO_{4+\delta}$, **251**, 216
Xue, Y.Y., see Chang, H., **251**, 126
Xue, Y.Y., see Xiong, Q., **251**, 216,

Yamaguchi, H., see Saini, N.L., **251**, 383
Yampol'skii, V.A., see Pérez-Rodríguez, F., **251**, 50
Yanagisawa, E., see Kumakura, H., **251**, 231
Yin, B., see Che, G.C., **251**, 110
Yin, B., see Wen, H.H., **251**, 371
Youm, D. and J.H. Kim, Low-angle biepitaxial Josephson junction fabricated on obliquely cut $SrTiO_3$ substrate, **251**, 399,

Zhao, Z.X., see Che, G.C., **251**, 110
Zhao, Z.X., see Wen, H.H., **251**, 371
Zhou, X.Z., H.P. Kunkel, P.A. Stampe, J.A. Cowen and G. Williams, Field and temperature dependent transport and magnetic properties of superconducting YNi_2B_2C, **251**, 183

ELSEVIER

Physica C 251 (1995) 415–416

PHYSICA C

Analytic Subject Index to Volume 251

AC losses
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ 325
Anisotropic superconductors 61, 97, 255, 405
Application of high T_c superconductors 15

Bismuth-based superconductors 1, 7, 27, 61, 71, 149, 238, 337
Borocarbides 183, 379

Carrier distribution 89
Charge carriers 89
Complex resistivity 355
Cracks 15
Critical current density 50, 61, 171, 183, 307
–of $(Y_{1-x}Pr_x)Ba_2Cu_3O_{7-\delta}$ 371
–of $Bi_{2.1}Sr_2Ca_{0.9}Cu_2O_x$ 1
–of $Bi_2Sr_2CaCu_2O_y$ 231
–of $Hg_{0.8}Pb_{0.2}Ba_2Ca_2Cu_3O_{8+\delta}$ 207
–of $TlBa_2Ca_2Cu_3O_y$ 105
–of $YBa_2Cu_3O_x$ 231
–of $YBa_2Cu_3O_{6+x}$ 361
–of $YBa_2Cu_3O_{7-\delta}$ 15
–of $YBa_2Cu_3O_{7-x}$ 315
–of $YBa_2Cu_4O_8$ 366
Critical phenomena 175, 290
Crystal growth
–of $Bi_2Sr_2Ca_1Cu_2O_x$ 149
Crystal structure
–of $(Pb_{0.5}Cd_{0.5})Sr_2(Tb_{1-x}Ca_x)Cu_2O_7$ 110
–of $GaSr_2Ca_2Cu_3O_{7+\delta}$ 279

Defect structures 337, 366, 389
Disorder 156
Disordered systems 263

Eddy current loss 325
Electrical resistivity
–of YNi_2B_2C 183
Electron-phonon interaction 379
Electronic instabilities 285
Electronic structure
–of $Bi_2Sr_2CaCu_2O_{8+y}$ 7
–of $Cu(Ca_{0.3}Sr_{0.7})_2(Ca_{0.3}Sr_{0.7})_{n-1}Cu_nO_{2n+2\delta}$ 389
–of $La_{1.85}Sr_{0.15}CuO_4$ 383
–of $La_2Au_{0.5}Li_{0.5}O_4$ 140
–of $La_2Cu_{0.5}Li_{0.5}O_4$ 140
Energy gap 140

Fluctuation effects 285
Fluctuations 337, 371
Flux creep 231, 371
Flux dynamics 307, 355
Flux flow 285
Flux pining 231
Flux pinning 366, 371, 405

Ginzburg–Landau theory 290
Grain alignment 27, 247
Granular superconductors 219

Heteroepitaxy 133
Hubbard model 263
Hysteresis loss 325

Inclusions 315, 361
Inhomogeneous superconductors 263
Irradiation effects 231
Irreversibility field 255
Irreversibility line 405

Josephson effect 171, 399

Kosterlitz-Thouless theory 337

Laser deposition
–of $YBa_2Cu_3O_7$ 247
Lattice distortions 7
Lattice instability 383
Local structure 383
Localization 156

Mössbauer spectroscopy 238
Magnetic pressure 15
Magnetisation
–of YNi_2B_2C 183
Magnetization 216, 307, 366
–of $(BiPb)_2Sr_2Ca_2Cu_3O_{10}$ 61
–of $YBa_2Cu_3O_{yy}$ 255
Magnetoresistance
–of $(BiPb)_2Sr_2Ca_1Cu_2O_y$ 405
Melting line 405
Mercury-based superconductors 115, 126, 207, 216
Metal-insulator transition 274
Microstructure 27
–of $GaSr_2Ca_2Cu_3O_{7+\delta}$ 279
Morphology 247

Neutron diffraction 238
–of $HgBa_2CuO_{4+\delta}$ 216
Neutron scattering
–of $YBa_2Cu_3O_{7-y}$ 337
Nonlinearity 50

Optical reflectance
–of $NdBa_2Cu_3O_x$ 274
Oxygen stoichiometry 71, 165, 216, 255, 274, 389

Penetration depth
–of $YBa_2Cu_3O_7$ 219
–of $YBa_2Cu_3O_{7-x}$ 171
Percolation 156
Phase diagram
–of $Bi_2Sr_2CaCu_2O_{8+x}$ 71
Phonon spectrum 192
Point-contact spectroscopy
–of $Y(Gd)Ba_2Cu_3O_{7-\delta}$ 97
Polarons 89
Pressure effect 207
Pseudo-quaternary phases 71

Raman scattering
–of $Bi_2Sr_2Cu_{6+\delta}$ 192
–of $HgBa_2Ca_2Cu_3O_8$ 126
–of $HgBa_2CaCu_2O_6$ 126
–of $YBa_2Cu_3O_{7-\delta}$ 165

Random media 355
Recursion method 263
Resistance
–of $Bi_2Sr_2CaCu_2O_{8+d}$ 337
Resistive transition
–of $Bi_2Sr_2Ca_2Cu_3O_{10+x}$ 175
–of $Bi_2Sr_2CaCu_2O_{8+x}$ 175
–of $YBa_2Cu_3O_{7-y}$ 175
Resistivity
–of $Bi_2Sr_2CaCu_{2-x}Li_xO_{\delta+y}$ 156
–of $Nd_2CuO_{4\pm\delta}$ 89
–of $YBa_2Cu_{3-x}Li_xO_{6.5+y}$ 156
–of YNi_2B_2C 379
Response to electromagnetic fields 50

Scaling 355
Scanning electron microscopy
–of $YBa_2Cu_3O_x$ 330
Step-solidification
–of $Bi_2Sr_2CaCu_2O_y$ 27
Structural modulation 192, 279
Substitution effects 97, 140, 192, 238, 361, 371
Substrates 399
Superconducting energy gap 97, 219
Superconducting junctions 399
–of $La_{1.85}Sr_{0.15}CuO_4$ 133
Superconducting magnets 15
Superconducting order parameter 337
Surface barrier 307
Surface morphology 330
Surface superconductivity 290
Susceptibility 115, 238
–of $YBa_2Cu_3O_7$ 219
Synthesis
–of $(Pb_{0.5}Cd_{0.5})Sr_2(Tb_{1-x}Ca_x)Cu_2O_7$ 110
–of $HgBa_2CaCu_2O_{6+\delta}$ 115
–of $TlBa_2Ca_2Cu_3O_y$ 105
–of $YBa_2Cu_4O_8$ 366

Tapes 1, 27, 61, 231
Target-substrate distance 247
Texture 1
Thallium-based superconductors 105
Thermal stability 126
Thermoelectric power
–of $HgBa_2CuO_{4+\delta}$ 216
Thick films 105
Thin films 165, 171, 330
Transmission electron microscopy 315
Tunneling 133, 379
Type-I superconductor 290

Unconventional pairing 175
Unconventional superconductivity 337
Upper critical field 183

Weak links 399
Wetting transition 290
Whiskers 149
Wires 325

ELSEVIER

Physica C 251 (1995) 417

PHYSICA C

Materials Index to Volume 251

$(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$
–aC losses 325
$(BiPb)_2Sr_2Ca_1Cu_2O_y$
–magnetoresistance 405
$(BiPb)_2Sr_2Ca_2Cu_3O_{10}$
–magnetization 61
$Bi_{2.1}Sr_2Ca_{0.9}Cu_2O_x$
–critical current density 1
$Bi_2Sr_2Ca_1Cu_2O_x$
–crystal growth 149
$Bi_2Sr_2Ca_2Cu_3O_{10+x}$
–resistive transition 175
$Bi_2Sr_2CaCu_2O_y$
–critical current density 231
–step-solidification 27
$Bi_2Sr_2CaCu_2O_{8+d}$
–resistance 337
$Bi_2Sr_2CaCu_2O_{8+x}$
–phase diagram 71
–resistive transition 175
$Bi_2Sr_2CaCu_2O_{8+y}$
–electronic structure 7
$Bi_2Sr_2CaCu_{2-x}Li_xO_{\delta+y}$
–resistivity 156
$Bi_2Sr_2Cu_{6+\delta}$
–raman scattering 192

$Cu(Ca_{0.3}Sr_{0.7})_2(Ca_{0.3}Sr_{0.7})_{n-1}Cu_nO_{2n+2\delta}$
–electronic structure 389

$GaSr_2Ca_2Cu_3O_{7+\delta}$
–crystal structure 279
–microstructure 279

$Hg_{0.8}Pb_{0.2}Ba_2Ca_2Cu_3O_{8+\delta}$
–critical current density 207
$HgBa_2Ca_2Cu_3O_8$
–raman scattering 126
$HgBa_2CaCu_2O_{6+\delta}$
–synthesis 115
$HgBa_2CaCu_2O_6$
–raman scattering 126
$HgBa_2CuO_{4+\delta}$
–neutron diffraction 216
–thermoelectric power 216

$La_{1.85}Sr_{0.15}CuO_4$
–electronic structure 383
–superconducting junctions 133
$La_2Au_{0.5}Li_{0.5}O_4$
–electronic structure 140
$La_2Cu_{0.5}Li_{0.5}O_4$
–electronic structure 140

$Nd_2CuO_{4\pm\delta}$
–resistivity 89
$NdBa_2Cu_3O_x$
–optical reflectance 274

$(Pb_{0.5}Cd_{0.5})Sr_2(Tb_{1-x}Ca_x)Cu_2O_7$
–crystal structure 110
–synthesis 110

$TlBa_2Ca_2Cu_3O_y$
–critical current density 105
–synthesis 105

$Y(Gd)Ba_2Cu_3O_{7-\delta}$
–point-contact spectroscopy 97
$YBa_2Cu_3O_x$
–critical current density 231
–scanning electron microscopy 330
$YBa_2Cu_3O_{yy}$
–magnetization 255
$YBa_2Cu_3O_{6+x}$
–critical current density 361
$YBa_2Cu_3O_7$
–laser deposition 247
–penetration depth 219
–susceptibility 219
$YBa_2Cu_3O_{7-\delta}$
–critical current density 15
–raman scattering 165
$YBa_2Cu_3O_{7-\nu}$
–neutron scattering 337
$YBa_2Cu_3O_{7-x}$
–critical current density 315
–penetration depth 171
$YBa_2Cu_3O_{7-y}$
–resistive transition 175
$YBa_2Cu_{3-x}Li_xO_{6.5+y}$
–resistivity 156
$YBa_2Cu_4O_8$
–critical current density 366
–synthesis 366
YNi_2B_2C
–electrical resistivity 183
–magnetisation 183
–resistivity 379
$(Y_{1-x}Pr_x)Ba_2Cu_3O_{7-\delta}$
–critical current density 371

ELSEVIER

Physica C 251 (1995) 419–420

PHYSICA C

Cumulative Author Index to Volume 251

Abalioshev, A.V., **251**, 207
Akimenko, A.I., **251**, 97
Akinaga, M., **251**, 7
Alloul, H., **251**, 219
Andreone, A., **251**, 379
Anselmi Tamburini, U., **251**, 89
Asaoka, H., **251**, 255
Ausloos, M., **251**, 337
Awaji, S., **251**, 255

Baltaga, I.V., **251**, 50
Basu, R.N., **251**, 165
Bennett, L.H., **251**, 361
Berner, D., **251**, 274
Beyers, R.B., **251**, 71
Bhattacharya, R.N., **251**, 105
Bianconi, A., **251**, 383
Blendell, J.E., **251**, 361
Boiko, Ya.V., **251**, 207
Bougrine, H., **251**, 337
Braun, H.F., **251**, 274
Bravman, J.C., **251**, 71
Bryntse, I., **251**, 115

Campá, J.A., **251**, 175
Canepa, F., **251**, 379
Cao, Y., **251**, 216
Chacon, L., **251**, 361
Chang, H., **251**, 126
Che, G.C., **251**, 110
Chen, C., **251**, 405
Chen, F., **251**, 216
Chen, H., **251**, 110
Chen, X.K., **251**, 192
Chiang, C.K., **251**, 361
Chu, C.W., **251**, 126, 216
Cimberle, M.R., **251**, 61
Collin, G., **251**, 219
Continenza, A., **251**, 389
Cowen, J.A., **251**, 183
Curzon, A.E., **251**, 192

Dallacasa, V., **251**, 156
De Pascale, T.M., **251**, 389
Dewing, H.L., **251**, 165
Doettinger, S.G., **251**, 285
Dong, C., **251**, 110
Duvigneaud, P.H., **251**, 337
D'yachenko, A.I., **251**, 207

Ehmann, A., **251**, 238
Elly, J., **251**, 171
Enomoto, Y., **251**, 355

Feduzi, R., **251**, 156
Ferdeghini, C., **251**, 61
Filoti, G., **251**, 238
Fisher, L.M., **251**, 50
Flor, G., **251**, 89
Flükiger, R., **251**, 61
Fontana, F., **251**, 379
Foster, C., **251**, 15
Franse, J.J.M., **251**, 7
Freyhardt, H.C., **251**, 366
Fukunaga, T., **251**, 325

Gao, J., **251**, 330
Garg, K.B., **251**, 7
Geserich, H.P., **251**, 274
Ghigna, P., **251**, 89
Ghivelder, L., **251**, 175
Giannini, E., **251**, 61
Gibson, J., **251**, 216
Gilabert, A., **251**, 171
Goerke, F., **251**, 247
Grasso, G., **251**, 61
Gudimenko, V.A., **251**, 97
Guerrin, L., **251**, 219
Guo, Y.F., **251**, 337
Güttler, B., **251**, 165
Györffy, B.L., **251**, 263

Hartford Jr., E.H., **251**, 133
He, Z.H., **251**, 126
Heinemann, K., **251**, 366
Heinz, E., **251**, 171
Hellman, E.S., **251**, 133
Hellstrom, E.E., **251**, 27
Hewitt, K.C., **251**, 192
Hill, M.D., **251**, 361
Hirano, K., **251**, 255
Huebener, R.P., **251**, 285

Iavarone, M., **251**, 379
Il'enko, K.V., **251**, 50
Indekeu, J.O., **251**, 290
Irwin, J.C., **251**, 192
Isobe, M., **251**, 279
Ito, T., **251**, 383
Iwasaki, H., **251**, 255

Jacobson, A., **251**, 216
Jia, S.L., **251**, 110
Jurelo, A.R., **251**, 175

Kalinov, A.V., **251**, 50
Kareiva, A., **251**, 115
Kazumata, Y., **251**, 231
Kelly, J.F., **251**, 361
Kemmler-Sack, S., **251**, 238
Kim, J.H., **251**, 399
Kim, W.-S., **251**, 149
Kobayashi, N., **251**, 255
Krämer, U., **251**, 315
Krelaus, J., **251**, 366
Kugel, K.I., **251**, 307
Kühle, A., **251**, 285
Kumakura, H., **251**, 231
Kunkel, H.P., **251**, 183
Kunzler, J.V., **251**, 175
Kussmaul, A., **251**, 133
Kwo, J.R., **251**, 133
Kwon, K.-J., **251**, 149

Lan, Y.C., **251**, 110
Lanzara, A., **251**, 383
Law, D.S-L., **251**, 7
Lee, S., **251**, 149
Lee, S.-I., **251**, 149
Li, J.W., **251**, 371
Linhart, J., **251**, 238
Litak, G., **251**, 263
Liu, J., **251**, 15
Liu, L.M., **251**, 216
Lutciv, R.V., **251**, 207

MacManus-Driscoll, J.L., **251**, 71
Maekawa, S., **251**, 355
Makarov, N.M., **251**, 50
Manfrinetti, P., **251**, 379
Marrè, D., **251**, 61
Massidda, S., **251**, 389
Matsui, Y., **251**, 279
Mattheiss, L.F., **251**, 140
Medici, M.G., **251**, 171
Menegotto Costa, R., **251**, 175
Meng-Burany, X., **251**, 192
Meng, R.L., **251**, 126
Menovsky, A., **251**, 7
Miller, P., **251**, 263
Missori, M., **251**, 383
Monnier, R., **251**, 389
Myasoedov, Yu.N., **251**, 207

Nishizaki, T., **251**, 255

Ohkubo, H., **251**, 7
Oka, K., **251**, 383
Okayasu, S., **251**, 231
Olsen, E.A., **251**, 1
Onufrieva, F., **251**, 348
Oota, A., **251**, 325
Oyanagi, H., **251**, 383

Palenzona, A., **251**, 379
Paranthaman, M., **251**, 105
Pérez-Rodríguez, F., **251**, 50
Pradhan, A.K., **251**, 405
Pudney, P., **251**, 7
Pureur, P., **251**, 175
Putti, M., **251**, 61

Rakhmanov, A.L., **251**, 307
Ramirez-Castellanos, J., **251**, 279
Rasines, I., **251**, 175
Ray II, R.D., **251**, 1, 27
Reimers, W., **251**, 238
Ren, Y., **251**, 15
Ritter, J.J., **251**, 361
Rodrigues Jr., P., **251**, 175
Rosenberg, M., **251**, 238
Rossetti, T., **251**, 383

Saini, N.L., **251**, 7, 383
Sasaki, T., **251**, 255
Sawh, R.P., **251**, 15
Scavini, M., **251**, 89
Schaf, J., **251**, 175
Schätzle, P., **251**, 315
Schiel, D., **251**, 165
Schinzer, C., **251**, 238
Schmauder, T., **251**, 171
Schmidl, F., **251**, 171
Seidel, P., **251**, 171
Seling, B., **251**, 238
Siri, A.S., **251**, 61
Smith, P.A., **251**, 1
Spinolo, G., **251**, 89
Srivastava, P., **251**, 7
Stampe, P.A., **251**, 183
Studer, F., **251**, 7

Takayama-Muromachi, E., **251**, 279
Takei, H., **251**, 255
Tarenkov, V.Yu., **251**, 207
Thomas, J., **251**, 315
Thorns, A., **251**, 247

Togano, K., **251**, 231
Tomita, N., **251**, 231

Ullmann, B., **251**, 366

Vaglio, R., **251**, 379
Van Leeuwen, J.M.J., **251**, 290
Verges, P., **251**, 315
Voloshin, I.F., **251**, 50

Wanklyn, B.M., **251**, 405
Watanabe, K., **251**, 255
Weinstein, R., **251**, 15
Wen, H.H., **251**, 371
Wetzig, A., **251**, 315
Widder, K., **251**, 274
Widder, W., **251**, 274
Williams, G., **251**, 183
Wong-Ng, W., **251**, 361
Wong, W.H., **251**, 330
Wu, F., **251**, 110

Xiao, Y.G., **251**, 371
Xiong, Q., **251**, 216
Xue, Y.Y., **251**, 126, 216

Yamaguchi, H., **251**, 383
Yampol'skii, V.A., **251**, 50
Yanagisawa, E., **251**, 231
Yin, B., **251**, 110, 371
Youm, D., **251**, 399

Zhao, Z.X., **251**, 110, 371
Zhou, X.Z., **251**, 183